FILE NOTATIONS

Entered in N I D File	✓	Checked by Chief	
Entered On S R Sheet		Copy N I D to Field Office	
Location Map Pinned		Approval Letter	
Card Indexed	✓	Disapproval Letter	
I W R for State or Fee Land			

COMPLETION DATA:

Date Well Completed 1-24-73 Location Inspected

S, LOW ✓ WW TA Bond released

GW OS PA State of Fee Land

LOGS FILED

Driller's Log ✓

Electric Logs (No.) ✓

E I E-I GR GR-N Micro

Lat Mi-L Sonic Others

U. S. G. S.

Form 9-331 C
(May 1963)

SUBMIT IN TRIPLICATE*
(Other instructions on reverse side)

Form approved.
Budget Bureau No. 42-R1425.

UNITED STATES
DEPARTMENT OF THE INTERIOR
GEOLOGICAL SURVEY

APPLICATION FOR PERMIT TO DRILL, DEEPEN, OR PLUG BACK

5. LEASE DESIGNATION AND SERIAL NO.: U-16919

6. IF INDIAN, ALLOTTEE OR TRIBE NAME:

1a. TYPE OF WORK: DRILL [X] DEEPEN [ ] PLUG BACK [ ]

b. TYPE OF WELL: OIL WELL [ ] GAS WELL [X] OTHER — SINGLE ZONE [ ] MULTIPLE ZONE [ ]

7. UNIT AGREEMENT NAME:

8. FARM OR LEASE NAME: Federal

2. NAME OF OPERATOR: Willard Pease Oil & Gas Company

9. WELL NO.: Anschutz # 2 Bar Ck.

3. ADDRESS OF OPERATOR: 570 Kennecott Bldg., Salt Lake City, Utah 84111

10. FIELD AND POOL, OR WILDCAT: Stateline

4. LOCATION OF WELL (Report location clearly and in accordance with any State requirements.*)
At surface: NW.SE.Sec.24,T.17 S.,R.25 E.,S.L.M.
At proposed prod. zone: 1945'fr E-line & 1945'fr S-line

11. SEC., T., R., M., OR BLK. AND SURVEY OR AREA: Sec.24-17S-25E, S.L.M.

14. DISTANCE IN MILES AND DIRECTION FROM NEAREST TOWN OR POST OFFICE*: Approx.18 miles ~~NK~~ NW of Mack, Colo.

12. COUNTY OR PARISH: Grand

13. STATE: Utah

15. DISTANCE FROM PROPOSED* LOCATION TO NEAREST PROPERTY OR LEASE LINE, FT. (Also to nearest drlg. unit line, if any): 1945

16. NO. OF ACRES IN LEASE: 640

17. NO. OF ACRES ASSIGNED TO THIS WELL: 160 acres

18. DISTANCE FROM PROPOSED LOCATION* TO NEAREST WELL, DRILLING, COMPLETED, OR APPLIED FOR, ON THIS LEASE, FT.: 3000'

19. PROPOSED DEPTH: ~~2700'~~ 2900

20. ROTARY OR CABLE TOOLS: Rotary

21. ELEVATIONS (Show whether DF, RT, GR, etc.): 5135'grd.;5145' K.B.

22. APPROX. DATE WORK WILL START*: ~~Dec.26,1976~~ Mar.15,1977

23. PROPOSED CASING AND CEMENTING PROGRAM

SIZE OF HOLE	SIZE OF CASING	WEIGHT PER FOOT	SETTING DEPTH	QUANTITY OF CEMENT
9 3/4"	7 5/8"	26.40#	150'	75 sks.
6 3/4"	4½"	9.50#	?	?

It is planned to drill a well at the above location to test the natural gas production possibilities of the sands in the Dakota, Cedar Mountain, and Morrison ~~xxxxx~~ formations. The well will be drilled with rotary tools using air for circulation. The surface casing will be set at about 150' and cemented with returns to the surface. A blowout preventer and a rotating head will be installed on top of the casing head. Fill and kill lines (2") will be connected to the casing head below the blind rams. Any gas encountered will be flared at the end of the blewie line and roughly checked for volume thru 2" lines off the casing head after the pipe rams have been closed. In the event of commercial production, 4½" casing will be run and cemented with sufficient cement to bring the top of the cement 250' above the top of the Dakota formation. A prognosis for the well is attached hereto.

Approval Notice - Anschutz #2 Bar Ck. Gas Area, Utah

IN ABOVE SPACE DESCRIBE PROPOSED PROGRAM: If proposal is to deepen or plug back, give data on present productive zone and proposed new productive zone. If proposal is to drill or deepen directionally, give pertinent data on subsurface locations and measured and true vertical depths. Give blowout preventer program, if any.

24.

SIGNED W. Moe Quigley TITLE Consulting Geologist DATE Mar.1,1977

(This space for Federal or State office use)

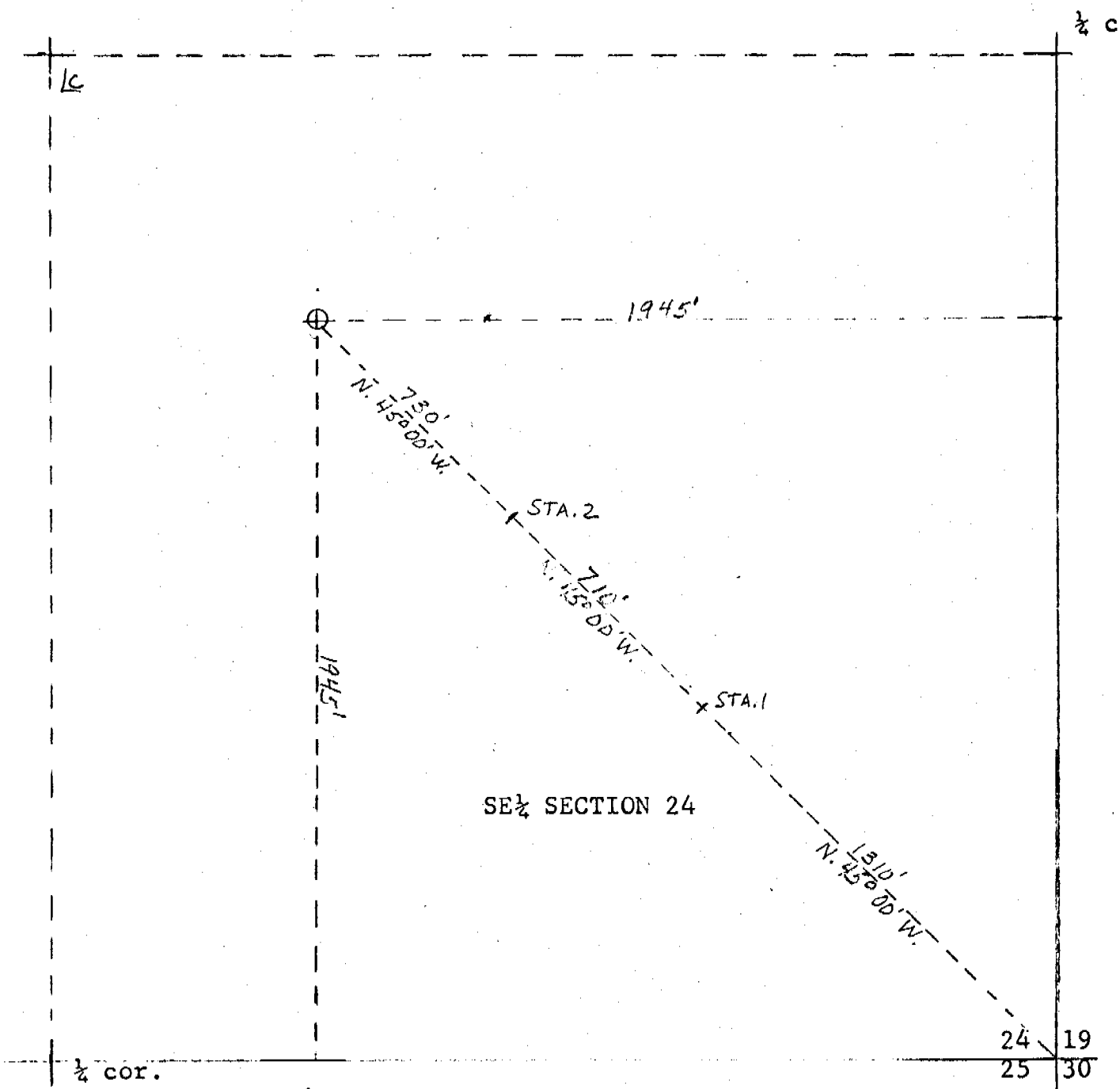
PERMIT NO. 43-019-30344 APPROVAL DATE

APPROVED BY (ORIG. SGD.) E. W. GUYNN TITLE DISTRICT ENGINEER DATE SEP 06 1977

CONDITIONS OF APPROVAL, IF ANY:

*See Instructions On Reverse Side

LOCATION PLAT FOR THE
[redacted]LLARD PEASE OIL & GAS COM[redacted]Y
ANSCHUTZ FED. #2 BARRICK WELL
NW.SE.SEC.24-17S-25E
GRAND COUNTY, UTAH
Elev.:5135'grd.



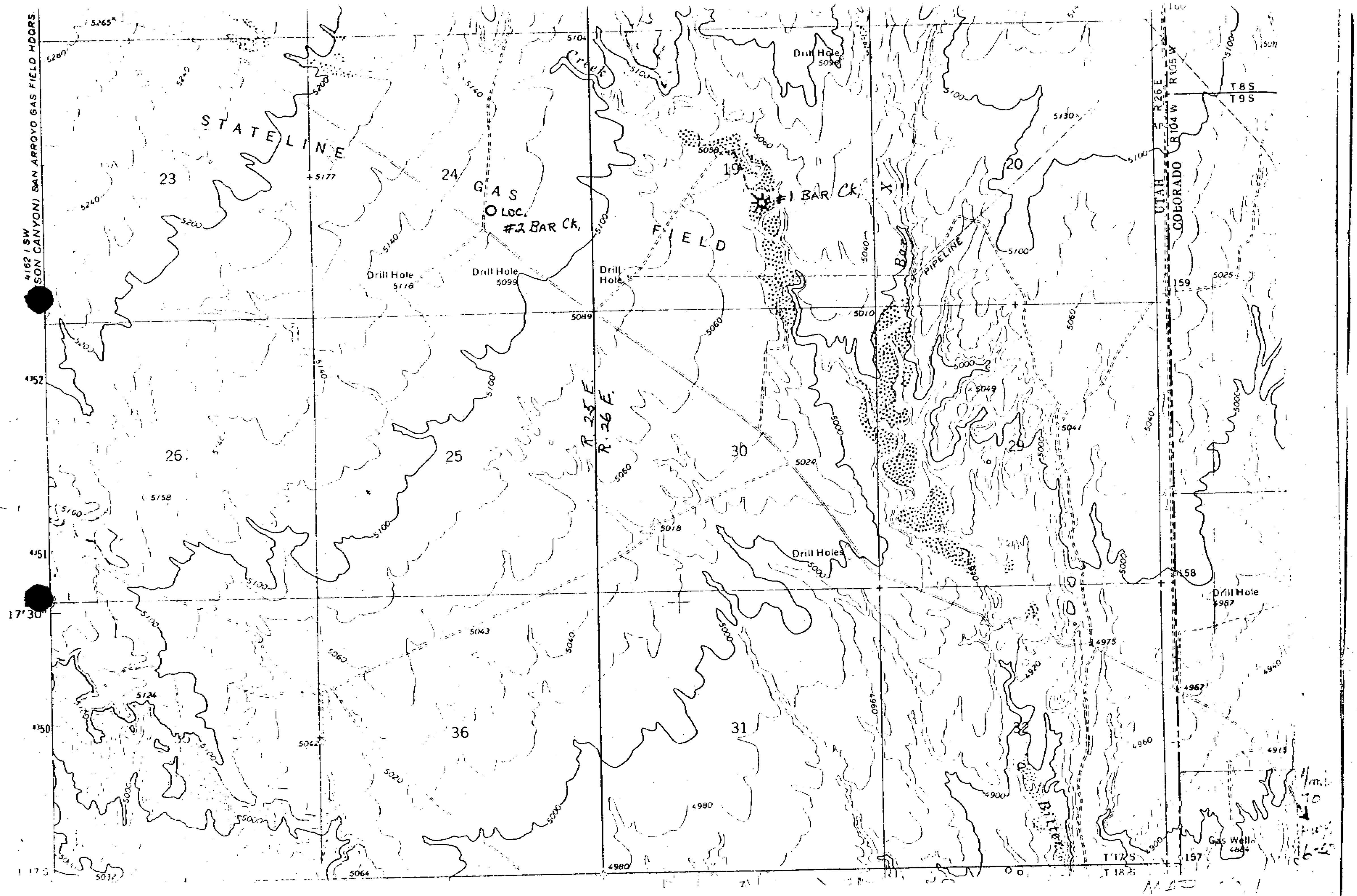
R. Pt.---- 200' SE.
R. Pt.---- 200' NW.

Scale: 1 in. = 400 ft.
Date: Mar. 10, 1977
Surveyed by: W. Don Quigley

I, W. Don Quigley, do hereby certify that this plat was plotted from notes of a field survey made by me on Nov. 27, 1976.

W. Don Quigley

PLAT NO.1


STATELINE GAS FIELD
O LOC. #2 BAR Ck.
#1 BAR Ck.
Drill Hole
Drill Holes
Gas Well
PIPELINE
R. 25 E.
R. 26 E.
UTAH
COLORADO
R 26 E
R104 W
R105 W
T 8 S
T 9 S
T 17 S
T 18 S
23
24
19
20
26
25
30
29
36
31
4162 I SW
(SON CANYON) SAN ARROYO GAS FIELD HDQRS
17'30"

SUMMARY OF ENVIRONMENTAL IMPACT EVALUATION EIA # 410

ATTACHMENT 2-A

WILLARD PEASE OIL & GAS
LEASE # U-16919
ANCHUTZ #2 BAR CK.
STATELINE FIELD
SEC 24 - T17S R25E
GRAND COUNTY, UT.
USGS JOHN DENNIS
BLM LAUREN ROBISON
REP. DON QUIGLEY

[0] ENHANCES
[ ] NO IMPACT
[/] MINOR IMPACT
[X] MAJOR IMPACT

		Construction				Pollution				Drilling Production					Transport Operations			Accidents		Others
		Roads, bridges, airports	Transmission lines, pipelines	Dams & impoundments	Others (pump stations, compressor stations, etc.)	Burning, noise, junk disposal	Liquid effluent discharge	Subsurface disposal	Others (toxic gases, noxious gas, etc.)	Well drilling	Fluid removal (Prod. wells, facilities)	Secondary Recovery	Noise or obstruction of scenic views	Mineral processing (ext. facilities)	Others	Trucks	Pipelines	Others	Spills and leaks	Operational failure	
Land Use	Forestry N/A																				
	Grazing ✓	/	/	/	/	/	/		/	/			/	/		/	/		/	/	
	Wilderness N/A																				
	Agriculture N/A																				
	Residential-Commercial N/A																				
	Mineral Extraction ✓	0	0							0						0	0		/	/	
	Recreation ✓	0	/	/		/	/			/			/			/	/		/	/	
	Scenic Views ✓	/	/	/		/	/			/			/			/	/		/	/	
	Parks, Reserves, Monuments ✓	/	/	/		/	/			/						/	/		/	/	
	Historical Sites N/A																				
	Unique Physical Feat. N/A																				
Flora & Fauna	Birds ✓	/	/	/		/	/		/	/			/			/	/		/	/	
	Land Animals ✓	/	/	/		/	/		/	/			/			/	/		/	/	
	Fish N/A																				
	Endangered Species				NONE		KNOWN														
	Trees, Grass, Etc. ✓	/	/	/		/	/		/	/			/			/	/		/	/	
Phy. Charact.	Surface Water ✓	/	/	/		/	/		/	/			/			/	/		/	/	
	Underground Water ✓	/								/											
	Air Quality ✓	/	/	/		/	/		/	/						/	/		/	/	
	Erosion ✓	/	/	/		/	/		/	/						/	/		/	/	
	Other																				
	Effect On Local Economy ✓	/	0	0	/		/	/	/	0			/			0	/		/	/	
	Safety & Health ✓	/	/	/			/	/	/	/			/			/	/		/	/	
	Others Orig Fee																				

cc: BCM - Moab w/o maps
Reg Denver
Moab DOGM ✓

Lease U-16919

Well No. & Location ANCHUTZ #2 BAR CK.

ENVIRONMENTAL IMPACT ANALYSIS - ATTACHMENT 2-B

1. Proposed Action

PROPOSES TO DRILL AN OIL AND GAS TEST WELL WITH ROTARY TOOLS TO ABOUT 2900 FT. TD. 2) TO CONSTRUCT A DRILL PAD 200 FT. X 250 FT. AND A RESERVE PIT 70 FT. X 100 FT. 3) TO CONSTRUCT FT. X NONE MILES ACCESS ROAD AND UPGRADE FT. X NONE MILES ACCESS ROAD FROM AN EXISTING AND IMPROVED ROAD.

2. Location and Natural Setting (existing environmental situation)

THIS SITE IS LOCATED IN RELATIVELY FLAT TERAIN, COVERD WITH HEAVY SAGE BRUSH, NATIVE GRASS AND RABBIT BRUSH. THE SURFACE IS OF MANCOS SHALE AND A SAND-RED CLAY MIXTURE. FAUNA IN THE AREA CONSISTS OF RABBITS, COYOTES, BADGERS, GROUND SQUIRELS, MICE, AND OTHER RODENTS. BIRDS IN THE AREA ARE - PRAIRIE HAWKS, AN OCCASIONAL GOLDEN EAGLE, FINCHES, RAVENS AND A FEW MAGPIES. THE ARE IS USED FOR GRAZING LIVESTOCK -

3. Effects on Environment by Proposed Action (potential impact)

1) EXHAUST EMISSIONS FROM THE DRILLING RIG POWER UNITS AND SUPPORT TRAFFIC ENGINES WOULD ADD MINOR POLLUTION TO THE ATMOSPHERE IN THE LOCAL VICINITY.

2) MINOR INDUCED AND ACCELERATED EROSION POTENTIAL DUE TO SURFACE DISTURBANCE AND SUPPORT TRAFFIC USE.

3) MINOR VISUAL IMPACTS FOR A SHORT TERM DUE TO OPERATIONAL EQUIPMENT AND SURFACE DISTURBANCE.

4) TEMPORARY DISTURBANCE OF WILDLIFE AND LIVESTOCK.

5) MINOR DISTRACTION FROM AESTHETICS FOR SHORT TERM.

6)

4. Alternatives to the Proposed Action

1) NOT APPROVING THE PROPOSED PERMIT -- THE OIL AND GAS LEASE GRANTS THE LESSEE EXCLUSIVE RIGHT TO DRILL FOR, MINE, EXTRACT, REMOVE AND DISPOSE OF ALL OIL AND GAS DEPOSITS.

2) DENY THE PROPOSED PERMIT AND SUGGEST AN ALTERNATE LOCATION TO MINIMIZE ENVIRONMENTAL IMPACTS.

3) NO ALTERNATE LOCATION COULD BE FOUND TO WARRENT THIS ACTION

5. Adverse Environmental Effects Which Cannot Be Avoided

1) MINOR AIR POLLUTION DUE TO EXHAUST EMISSIONS FROM RIG ENGINES AND SUPPORT TRAFFIC ENGINES.

2) MINOR INDUCED AND ACCELERATED EROSION POTENTIAL DUE TO SURFACE DISTURBANCE AND SUPPORT TRAFFIC USE.

3) MINOR AND TEMPORARY DISTURBANCE OF WILDLIFE.

4) TEMPORARY DISTURBANCE OF LIVESTOCK.

5) MINOR AND SHORT-TERM VISUAL IMPACTS.

6)

6. Determination

(This requested action [redacted]) (does not) constitute a major Federal action significantly affecting the environment in the sense of NEPA, Section 102(2) (c).

Date Inspected 3-25-77

Inspector [signature]

[signature]

U.S. Geological Survey,
Conservation Division
Salt Lake City District
Salt Lake City, Utah

U.S. GEOLOGICAL SURVEY, CONSERVATION DIVISION

FROM: DISTRICT GEOLOGIST, SALT LAKE CITY, UTAH

TO: DISTRICT ENGINEER, SALT LAKE CITY, UTAH

Well	Location	Lease No.
Willard Pease Oil and Gas Co.: Anschutz #2 Bar Creek	1945'FEL, 1945' FSL, Sec. 24, T17S, R25E, SLM, Grand Co., Utah, 5135' Gr El.	U-16919

1. **Stratigraphy and Potential Oil and Gas Horizons.** Surface rocks: Mancos Shale. Well will test the Morrison Fm. American Metal Co. #2 (5133' K.B.), same section, reported tops: Dakota 2272'; Morrison 2371'; Brushy Basin 2508'; Salt Wash 2710'; T.D. 2820'. Initial production AMC #2: 25 BOPD from 2714'-2724', 2737'-2747' in Morrison (Salt Wash). Abd. 1965. Dakota and Ceder Mtn. Formation may have gas sands.

2. **Fresh Water Sands.** No wells in vicinity of this test. Usable fresh water may occur in Mancos Shale (Castlegate Member, if present). Deeper waters probably saline. Protect all fresh water aquifers penetrated.

3. **Other Mineral Bearing Formations. (Coal, Oil Shale, Potash, Etc.)** Prospectively valuable for coal. Dakota Sd. may bear poor quality, lenticular coal horizons.

4. **Possible Lost Circulation Zones.** Unknown

5. **Other Horizons Which May Need Special Mud, Casing, or Cementing Programs.** Unknown

6. **Possible Abnormal Pressure Zones and Temperature Gradients.** Unknown

7. **Competency of Beds at Proposed Casing Setting Points.** Weathered shale will cave, otherwise rocks are probably competent.

8. **Additional Logs or Samples Needed.** APD logging is adequate as outlined.

9. **References and Remarks** Well test is within Bar-X KGS.
U.S.G.S. Bull. 852, Fisher, 1936.
Seventh Annual Field Conf. AIPG, 1956, Petersen (ed.)

Date: 3/22/77 Signed: Thomas R. Assay

Utah DOGM

Utah State

Form 9-331 C
(May 1963)

SUBMIT IN TRIPLICATE*
(Other instructions on reverse side)

Form approved.
Budget Bureau No. 42-R1425.

UNITED STATES
DEPARTMENT OF THE INTERIOR
GEOLOGICAL SURVEY

APPLICATION FOR PERMIT TO DRILL, DEEPEN, OR PLUG BACK

5. LEASE DESIGNATION AND SERIAL NO.: U-16919

6. IF INDIAN, ALLOTTEE OR TRIBE NAME:

1a. TYPE OF WORK: DRILL [X] DEEPEN [ ] PLUG BACK [ ]

b. TYPE OF WELL: OIL WELL [ ] GAS WELL [X] OTHER — SINGLE ZONE [ ] MULTIPLE ZONE [ ]

7. UNIT AGREEMENT NAME: Bar Creek

8. FARM OR LEASE NAME: Federal

2. NAME OF OPERATOR: Willard Pease Oil & Gas Company

9. WELL NO.: Anschutz # 2 Bar Ck.

3. ADDRESS OF OPERATOR: 570 Kennecott Bldg., Salt Lake City, Utah 84111

10. FIELD AND POOL, OR WILDCAT: Stateline

4. LOCATION OF WELL (Report location clearly and in accordance with any State requirements.*)
At surface: NW.SE.Sec.24,T.17 S.,R.25 E.,S.L.M.
At proposed prod. zone: 1945'fr E-line & 1945'fr S-line

11. SEC., T., R., M., OR BLK. AND SURVEY OR AREA: Sec.24-17S-25E, S.L.M.

14. DISTANCE IN MILES AND DIRECTION FROM NEAREST TOWN OR POST OFFICE*: Approx.18 miles ~~NE~~ NW of Mack, Colo.

12. COUNTY OR PARISH: Grand

13. STATE: Utah

15. DISTANCE FROM PROPOSED* LOCATION TO NEAREST PROPERTY OR LEASE LINE, FT. (Also to nearest drlg. unit line, if any)	16. NO. OF ACRES IN LEASE	17. NO. OF ACRES ASSIGNED TO THIS WELL
1945	640	160 acres
18. DISTANCE FROM PROPOSED LOCATION* TO NEAREST WELL, DRILLING, COMPLETED, OR APPLIED FOR, ON THIS LEASE, FT.	**19. PROPOSED DEPTH**	**20. ROTARY OR CABLE TOOLS**
3000'	2700'	Rotary

21. ELEVATIONS (Show whether DF, RT, GR, etc.): 5135'grd.;5145' K.B.

22. APPROX. DATE WORK WILL START*: ~~Dec. 26, 1976~~ Mar.15,197

23. PROPOSED CASING AND CEMENTING PROGRAM

SIZE OF HOLE	SIZE OF CASING	WEIGHT PER FOOT	SETTING DEPTH	QUANTITY OF CEMENT
9 3/4"	7 5/8"	26.40#	150'	75 sks.
6 3/4"	4½"	9.50#	?	?

It is planned to drill a well at the above location to test the natural gas production possibilities of the sands in the Dakota, Cedar Mountain, and Morrison ~~xxxxx~~ formations. The well will be drilled with rotary tools using air for circulation. The surface casing will be set at about 150' and cemented with returns to the surface. A blowout preventer and a rotating head will be installed on top of the casing head. Fill and kill lines (2") will be connected to the casing head below the blind rams. Any gas encountered will be flared at the end of the blewie line and roughly checked for volume thru 2" lines off the casing head after the pipe rams have been closed. In the event of commercial production, 4½" casing will be run and cemented with sufficient cement to bring the top of the cement 250' above the top of the Dakota formation. A prognosis for the well is attached hereto.

IN ABOVE SPACE DESCRIBE PROPOSED PROGRAM: If proposal is to deepen or plug back, give data on present productive zone and proposed new productive zone. If proposal is to drill or deepen directionally, give pertinent data on subsurface locations and measured and true vertical depths. Give blowout preventer program, if any.

24.

SIGNED W. Moss Quigley TITLE Consulting Geologist DATE Mar.1,1977

(This space for Federal or State office use)

PERMIT NO. 43-019-30044 APPROVAL DATE

APPROVED BY TITLE DATE

CONDITIONS OF APPROVAL, IF ANY:

RECEIVED
MAR 2 1977
DIVISION OF GAS, & MINING

*See Instructions On Reverse Side

PROGNOSIS FOR BAR CREEK
UNIT WELL
ANSCHUTZ-FED.#2 BAR-CK.
NW.SE.SEC 24--17S-25E.
GRAND COUNTY, UTAH

Location: NW.SE. Sec. 24, T.17 S., R.25 E., S.L.M., Grand County, Utah (1945' from S-line & 1945' from E-line)

Elevation: 5135'grd.; 5145'K.B.

Surface Casing: 150 ft. of 7 5/8" O.D., 26.40#, J-55, 8 Rd, LTC, new; set and cemented with returns to the surface.

Expected Formation Tops:

Formation	Depth to top	Thickness	Datum
Mancos	Surface	2070'	5070'K.B.
Dakota	2070'	125'	3000'
Cedar Mountain	2195'	75'	2875'
Morrison	2270'	250'	2800'
Salt Wash	2520'	270'	2550'
Curtis	2790'	60'	2280'
Entrada	2850'	-----	2220'
Total Depth	2900'		

1. It is planned to drill a 9 3/4" surface hole for the surface casing down to a depth of about 150 ft. and set 7 5/8" casing with approx. 60 sks of cement with returns to the surface. A casing head will be mounted on top of the surface casing and a blowout preventer with blind and pipe rams (hydraulic) will be mounted on the casing head. A rotating head will then be mounted on top of the blowout preventer. A blewie line, at least 100 ft. long, will then be attached to the rotating head and extended into the reserve pit.

2. A 6 3/4" hole will then be drilled below the surface casing, using air for circulation. A flare will be maintained at the end of the blewie line at all times while drilling below 1000'. This will insure that no gas will be missed. The air drilling will also minimize the damage to the hydrocarbon reservoir.

3. Samples of the cuttings will begin at 1000'. 30-ft. samples will be taken from 1000' to 2000', and then 10-ft. samples will be taken from 2000' to total depth.

4. It is planned to drill the well to a depth which is 50 ft. below the top of the Entrada formation unless good commercial flow of gas (250 MCF or more) is obtained above this depth.

5. If a high gas flow(several million cubic feet) and/or when the total depth of the well is reached, electric logs will be run. Prior to running logs, high viscosity mud (not less 80 vis.) will be pumped into the hole to provide control of the gas and to provide a conductive medium for the logs. An induction-electrical log will be run from bottom to the top of the hole, and a gamma-density and compensated neutron porosity log will be run from the bottom to a point which is 150' above the top of the Dakota formation.
   (Note: In the event a small gas flow (less than 750 MCFO is obtained, it may be desirable to run casing, 4½"O.D., thru the rotating head prior to mudding up and running logs, with cement baskets and DV tool on the casing so that the casing can be cemented above the production zone; thereby preventing any damage to the formation and eliminating considerable completion expense. This is an important consideration when the volume of gas is low and the return from the well would be correspondingly low. The well could then be logged inside the casing with a gamma-neutron log.)

6. If good production (over 750 MCK) is obtained 4½"O.D., 9.50#, J-55 or H-40, new casing will be run and cemented conventionally with sufficient cement to cover 200 ft. above the top of the Dakota formation. The production zone will then be perforated, 2 3/8"O.D. tubing run, and completed conventionally.

7. It is anticipated that the drilling of the well will require less than one week.

W. Don Quigley

Consulting Geologist
Salt Lake City, Utah

SURFACE USE & OPERATIONS PLAN
FOR
WILLARD PEASE OIL & GAS CO.
ANSCHUTZ-FED.#2 BAR CK.WELL
NW.SE.SEC.24-17S-25E
GRAND COUNTY,UTAH

1. A survey plat showing the location of the proposed well site is attached,(See Plat No.1). Map No.1 shows the route to the well site from Hwy 6-50 at a point just west of the Stateline store. This map shows the secondary roads in the surrounding area. It is about 7 miles to the location from the hiway. The road to the location is in good shape and will support heavy trucks.The location is right beside the road and no new road will have to be built.

2. Planned Access Roads: See No.1 above.

3. Location of Existing Wells: See attached map.

4. Location of Production Equipment:A plan for the anticipated production equipment, if the well is successful, is submitted on Plat No.2. When production ceases this equipment will be removed and the land surface graded, levelled and reseeded.

5. Water Supply: Very little water will be required for the drilling operations of the subject due to using air for circulation. The water required will be hauled by truck to the location from West Salt Creek where it crosses under Hwy 6-50 about 2 miles west of Mack, Colorado.

6. Road Material: No additional road material, gravel, sand or culverts, will be required for the proposed drilling operations.

7. Waste Disposal: A reserve and burn pit will be constructed at the well site. All excess water,mud, and drill cuttings will be deposited into the reserve pit. Burnable material and garbage will be put into the burn pit. Both of these pits will be folded in and covered as soon as feasible after the cessation of drilling operations.

8. Camp Facilities and Airstrips: No camp facilities other than two or three house trailers at the well site will be needed. No airstrips will be required.

9. Well Site Layout: A plan for the drilling equipment layout required for the drilling operations is submitted on Plat No. 3. The approximate dimensions of the drill site are shown. The site will be levelled for this equipment. Since the site is quite level, it will not be necessary to make any deep cuts or major surface shift The reserve pit will be about 4 ft. deep with 4-ft. banks. The sage brush will be removed.

10. Restoration: After the drilling operations have been concluded and the equipment removed, the well site area will be cleaned, levelled and restored to normal. The pits will be covered and the area reseeded, if the well is not successful. Otherwise the site will be levelled and prepared for the placement of the production equipment. This work will be accomplished within 30 days after the drilling equipment has been removed.

11. Land Description : The proposed well site is located beside the present secondary rd. and is on fairly level ground that is covered with heavy sage brush. There is no other natural vegetation on the site area. The surface is Mancos shale, and some gravel from erosion and deposition along the wash. Very little grading to the location will be required.

12. Representative: The operator's representative at the well site will probably be W. Don Quigley, 303 Phillips Petro. Bldg., Salt Lake City, Utah. The location work and restoration work will probably be done by Bob Sasser of Willard Pease Drilling Co.

13. Certification:

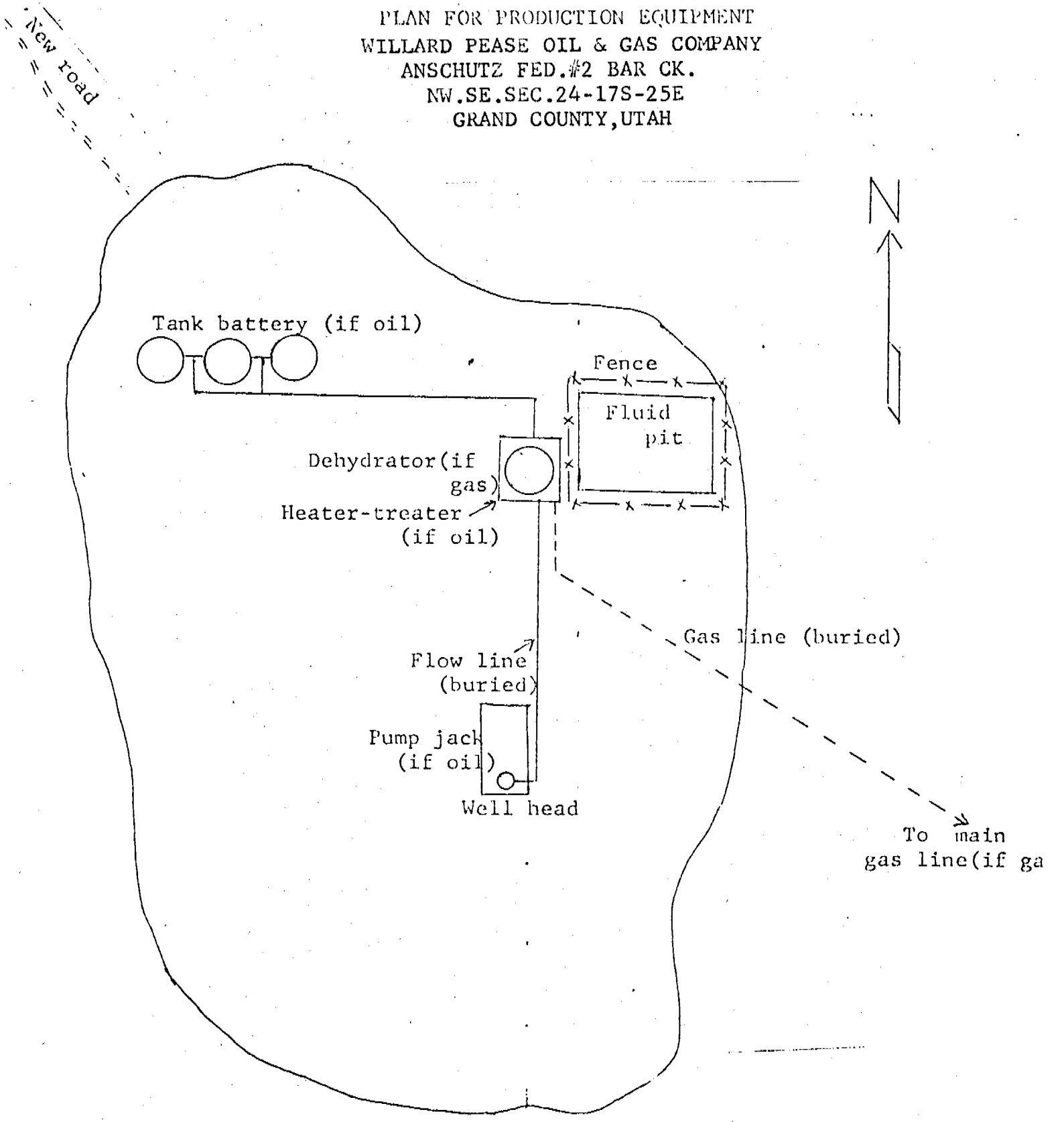
I hereby certify that I, or persons under my direct supervision, have inspected the drill site and access route; that I am familiar with the conditions which presently exist; that statements made in this plan are, to the best of my knowledge, true and correct; and, that the work associated with the operations proposed herein will be performed by Willard Pease Oil & Gas Co. and its contractors in conformity with this plan and terms and conditions under which it is approved.

Date: Mar. 1, 1977

W. Don Quigley

W. Don Quigley, Consultant

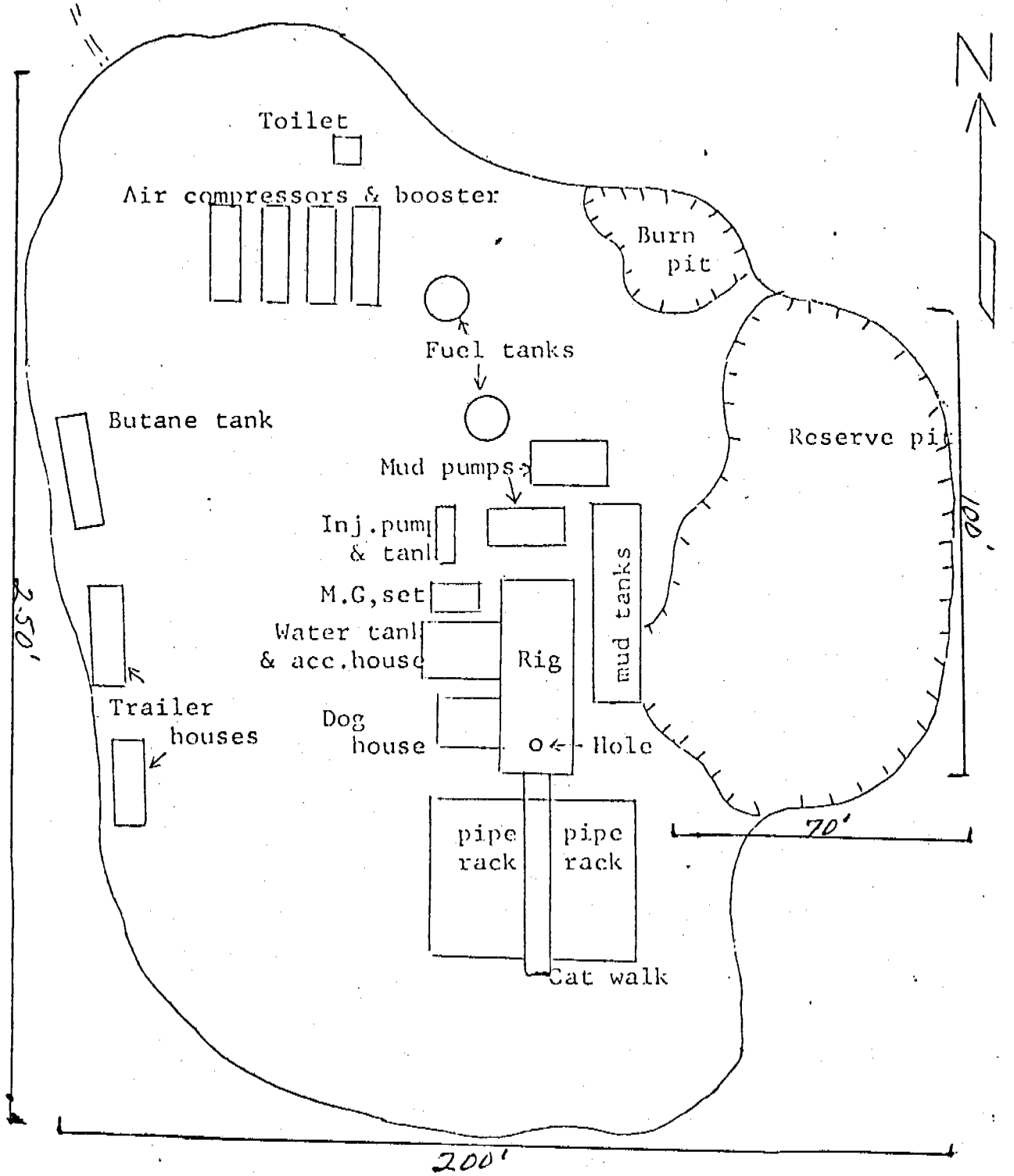
PLAN FOR PRODUCTION EQUIPMENT
WILLARD PEASE OIL & GAS COMPANY
ANSCHUTZ FED.#2 BAR CK.
NW.SE.SEC.24-17S-25E
GRAND COUNTY,UTAH



Plat No.2

LOCATION PLAN FOR

WILLARD PEASE OIL & GAS CO.
ANSCHUTZ-FED.# 2 BAR-6k.WELL
NW.SE.SEC. 24-17S-25 E.
GRAND COUNTY,UTAH



Scale: 1 in.= approx.35 ft.

PLAT NO.3

WILLARD PEASE OIL & GAS CO.
ANSCHUTZ-FED.#2 BAR-CK. WELL
GRAND COUNTY, UTAH

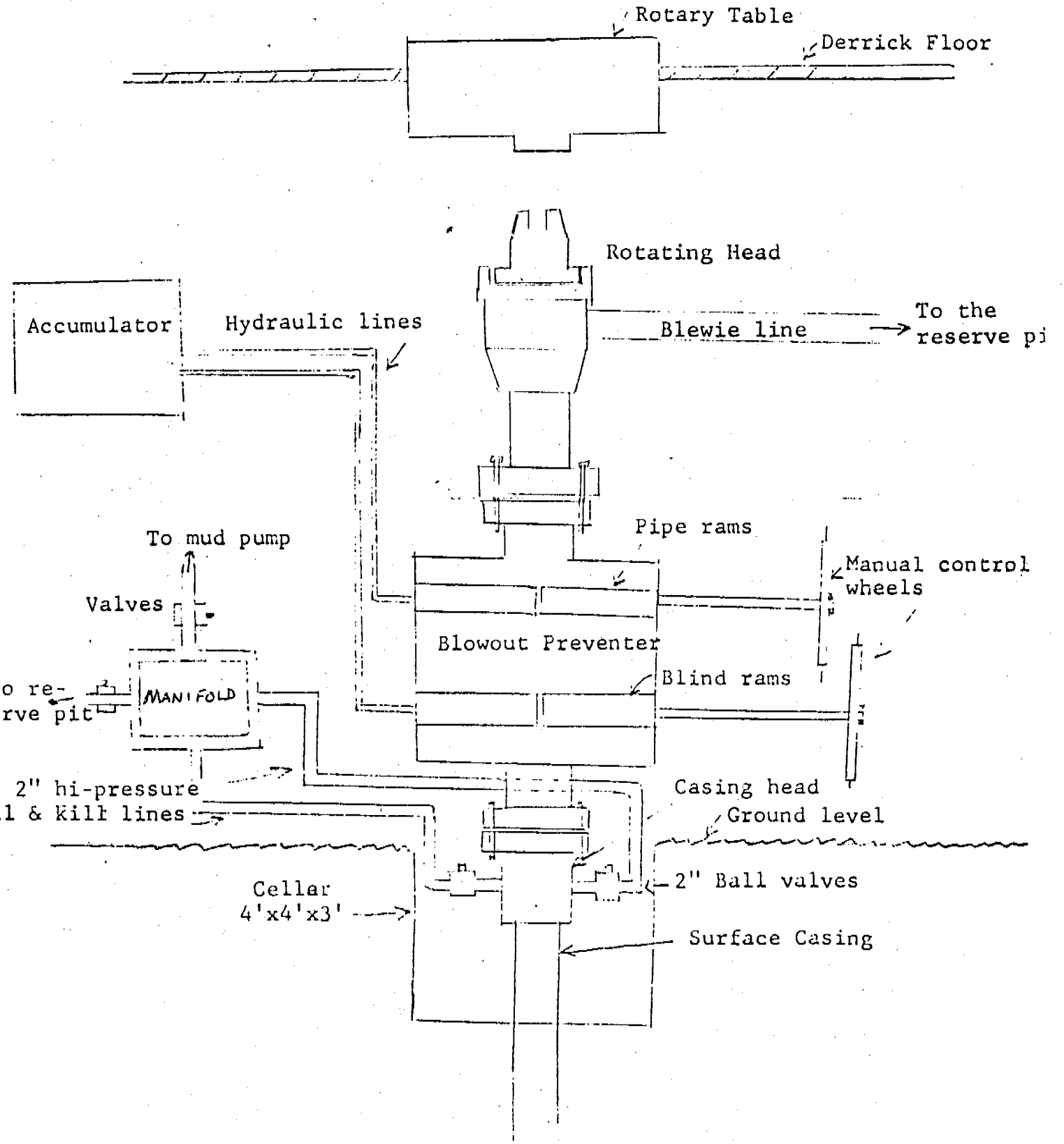
The following control equipment is planned for the above designated well: (See attached diagram).

1. Surface Casing:
   A. Hole size for surface casing is 9 3/4"
   B. Setting depth for surface casing is approx. 150 ft.
   C. Casing specs. are: 7 5/8" O.D., J-55, 26.40#, 8 rd. thread, new or used.
   D. Anticipated pressure at setting depth is approx. 20 lbs.
   E. Casing will be run using three centralizers and a guide shoe, and will be cemented with 60 sks of cement with returns to the surface.
   F. Top of the casing will be at ground level.
2. Casing Head:
   Flange size: 10", A.P.I. Pressure rating: 2000# W.P., Series 600; Cameron, OCT, or equivalent; new or used; equipped w/two 2" ports with nipples and 2'', 2000# W.P. ball or plug valves. Casing head and valves set above ground level.
3. Intermediate Casing:
   None.
4. Blowout Preventors:
   A. Double rams; hydraulic; one set of blind rams; one set of rams for 3½" or 4" drill pipe; 10"flange; 2000# or greater W.P.; Series 900; equipped with mechanical wheels and rod for back-up; set on top of casing head flange and securely bolted down, and pressure tested for leaks up to 2000#p.s.i.
   B.Rotating Head:
   Shaffer, Grants or equivalent; set on top of blowout preventor and bolted securely; complete with kelly drive, pressure lubricator; 3½" or 4" rubber for 2000# W.P.;need not have hydril assembly on bottom.
   C.Fill and Kill Lines:
   The fill and kill lines (2" tubing or heavy duty line pipe) are to be connected thru the 2" valves on the casing head.
5. Auxillary Equipment:
   A float valve is to be used in the bottom drill collar at all times. A string float will also be used in the drill pipe and kept within 200'-300' of the surface.
6. Anticipated Pressures:
   The shut-in pressures of the Dakota, Cedar Mountain, and Morrison formations at depths of 3000' to 4000' in the area have been measured at about 1000# to 1500# maximum.
7. Drilling fluids:
   Air-soap-water mist will be used to drill the subject well. In case of excessive caving problems, it may be

necessary to convert to mud.

8. Production Casing:
   A. Hole size for production casing will be 6 3/4".
   B. Approx. setting depth will be about 2900'
   C. Casing Specs. are: 4½"O.D.; J-55; 9.50#, 8-rd thread; new.
   D. If good production is obtained, the casing will be run with a guide shoe at the bottom and about six centralizers and cemented conventionally with sufficient cement to cover 200 ft. above the top of the Dakota formation. The production zone will be perforated, 2 3/8"O.D. tubing will be run, and the well completed conventionally. In the event the production is small, it may be desirable to minimize the damage to the formation by keeping all mud and cement off the formation. In this case the procedure outlined below will be used.
   E. Casing will be run with about six centalizers and a Lynes packer and DV tool set above the production zone. There will be sufficient casing to extend thru the production zone below the Lynes packer and a blind guide shoe on the bottom. The casing will be cemented above the packer with about 85 sks of cement (sufficient to cement thru the Dakota formation). The cement will be allowed to cure at least 48 hrs. The plug can then be drilled out and the casing perforated below the packer. Two inch tubing will be run and secured in the tubing head prior to perforating.

SCHEMATIC DIAGRAM OF
CONTROL EQUIPMENT FOR THE
WILLARD PEASE OIL & GAS CO. WELL
ANSCHUTZ-FED #2, BAR-CK.
NW.SE.SEC.24-17S-25E.
GRAND COUNTY, UTAH



STATE OF UTAH
DIVISION OF OIL, GAS, AND MINING

** FILE NOTATIONS **

Date: March 3.

Operator: Willard Pease Oil & Gas

Well No: Auschutz #2 Bar Creek

Location: Sec. 24 T. 17S R. 25E County: Grand

File Prepared [✓] Entered on N.I.D. [✓]

Card Indexed [✓] Completion Sheet [✓]

CHECKED BY:

Administrative Assistant [illegible]

Remarks: OK - In Unit Area

Petroleum Engineer [illegible]

Remarks:

Director

Remarks:

INCLUDE WITHIN APPROVAL LETTER:

Bond Required [ ] Survey Plat Required [ ]

Order No. 165-1 [✓] Surface Casing Change [ ]
to

Rule C-3(c), Topographic exception/company owns or controls acreage within a 660' radius of proposed site [ ]

O.K. Rule C-3 [ ] O.K. In Bar Creek Unit [✓]

Other:

[✓] Letter Written/~~Approved~~

March 9, 1977

Willard Pease Oil & Gas Company
570 Kennecott Building
Salt Lake City, Utah 84111

Re: Well No. Anschutz Bar Creek #
Sec. 24, T. 17 S, R. 25 E,
Grand County, Utah

Gentlemen:

Insofar as this office is concerned, approval to drill the above referred to well is hereby granted in accordance with the Order issued in Cause No. 165-1.

Should you determine that it will be necessary to plug and abandon this well, you are hereby requested to immediately notify the following:

PATRICK L. DRISCOLL - Chief Petroleum Engineer
HOME: 582-7247
OFFICE: 533-5771

Enclosed please find Form OGC-8-X, which is to be completed whether or not water sands (aquifers) are encountered during drilling.

The API number assigned to this well is 43-019-30344.

Very truly yours,

DIVISION OF OIL, GAS, AND MINING

CLEON B. FEIGHT
Director

/SW
cc: U.S. Geological Survey

CIRCULATE TO:

DIRECTOR
PETROLEUM ENGINEER
MINE COORDINATOR
ADMINISTRATIVE ASSISTANT
ALL

RETURN TO Kathy Wells FOR FILING

October 14, 1977

Memo To File:

Re: Willard Pease Oil and Gas Co.
Anschutz Bar Creek #2
Sec. 24, T. 17S, R. 25E,
Grand County, Utah

Mr. Don Quigley informed this office that the above referenced well will be spudded in on October 15, 1977.

This information was taken by telephone on October 14, 1977.

PATRICK L. DRISCOLL
CHIEF PETROLEUM ENGINEER

PLD/ko

5

DRILLING AND COMPLETION HISTORY

AND

GEOLOGIC REPORT

ON

BAR CREEK UNIT #2 WELL

GRAND COUNTY, UTAH

By

W. Don Quigley

Consulting Geologist
Salt Lake City, Utah

February 25, 1978

DRILLING AND COMPLETION HISTORY
AND
GEOLOGIC REPORT
ON
WILLARD PEASE OIL & GAS CO.
BAR CREEK UNIT #2 WELL

Operator: Willard Pease Oil & Gas Co.
570 Kennecott Bldg., S.L.C., Utah 84111

Contractor: Willard Pease Drlg. Co. (Rig #1)
P.O. Box 548, Grand Junction, Colo. 81501

Location: NW.SE. Sec. 24, T 17S., R 25E., Grand County, Utah
(1945' fr. E-line and 1945' fr. S-line)

Elevation: 5135' grd; 5145' K.B.

Spudded-in: Oct. , 1977

Total Depth: 2966'

Surface Casing: 8 5/8", 24#, J-55 casing set at 163' K.B. and cemented with 85 sks of Type G cement with 3% salt and 2% CaCl.

Production Casing: 5½", 14.50# and 23.00# casing set at 2880' K.B. and cemented with 100 sks of R.F.C. cement.

Electric Logs: Induction Electric; Gamma-Density; Compensated-Neutron-Porosity

Production Formation: Morrison-Salt Wash

Production Zone: 2740' to 2760'

Completion Date: Jan. 24, 1978

Initial Production Rate: 15 bbl oil and 200 MCF of gas per day.

Drilling History

Oct. 13-14: Moved-in and rigged up.

Oct. 15: Drilled rat hole; drilled mouse hole. Drilled 12¼" surface hole from 0' to 166'. Ran 5 jts of 8 5/8", 24#, J-55 casing, and landed at 163' K.B. Cemented with 85 sks of Type G cement with 3% salt, and 2% CaCl. Had returns to the surface. Waiting on cement to set. Began nippling up to drill ahead with air and a 7 7/8" bit.

Oct. 16: Drilled 166' to 1699' (1533'). Went in hole with a tooth bit. Drilled out cement plug and drilled ahead in Mancos shale with air at a rate of 60 ft/hr. Dusting good.

Oct. 17: Drilled 1699' to 2865' (1166'). Made rd-trip at 1918' to put on button bit. Bit #2 (CP-EH3) made 1755 ft. (163' to 1918') in 27 hrs. Drilled at avg. rate of 65 ft/hr. in Mancos shale.
First gas show - short flare on connection - was at 2013' in the Mancos. Had good gas odor in samples from 1920' to 2040'. Had a slight increase in the gas at 2160' to 2190' in the Mancos. This was in a dark gray-- argillaceous, very fine-grained-silty sandstone that had a strong gas odor and good fluorescence. Estimate top of Dakota at 2250' which was a coal zone about 10 ft. thick. Had some v.f.g. tight bentonitic sandstone below coal with a very small amount of gas. Flared on connections for about 3 seconds. Had another coal zone at 2290' to 2295'. Encountered a very bentonitic sand at base of Dakota at 2330' to 2360'. No apparent increase in gas. Estimate top of Cedar Mountain at 2360' due to light-green shale and tan crystalline limestone. No good sands in Cedar Mountain. Estimate top of Morrison (Brushy Basin member) at 2430'. Encountered a hard quartzitic sand at 2590' to 2605' with no gas. Dusting good still and no water. Dust began getting damp and wet at 2720'. Estimate top of Salt Wash section at 2690'. Had to convert to air-mist drilling with soap and water at 2750'. Had marked increase in gas volume at 2775'. Burned continuously with 20-ft. flare while drilling. Continuous flare (20 ft.) on connections. Had a good porous sand at 2775' to 2795'. Gas volume increased slightly. Drilled to 2860' and lost two air compressors due to mechanical failure and had an increase in amount of water, so had to convert to mud.

Oct. 18: Rigged up to drill ahead with mud and filled hole with 120 Vis mud. Drilled 2860' to 2966' (106'). Drilling

ahead with mud at rate of 6 to 7 ft/hr. Drilled till Schlumberger arrived on location at 4 P.M. Came out of hole. Bit #3 (Reed-FD54J) made 1048' (1918' to 2966') in 32 hrs. Drilled at avg. rate of 33 ft/hr. Rigged up Schlumberger and began logging at 6 P.M. Ran I E S, Gamma-Density-Compensated Neutron Porosity logs. Finished logging at 11 P.M. Took logs to Grand Junction.

Oct. 19: Went in hole with drill collars and pipe and came out laying down. Out of hole at 6 A.M. Began running casing at 6:30 A.M. Ran 85 jts of 5½", 14.50# and 23.00# casing (1410' of 23.00# on bottom and 1430' of 14.50# on top - top jt-40 ft. long- is 23.00#). Landed casing at 2880' K.B. Guide shoe on bottom and float valve in guide shoe. Centralizers on every third collar for 5 centralizers. Cemented casing with 100 sks of R.F.C. cement. Plug down at 10:00 A.M. -Waiting on cement and began rigging down.

COMPLETION HISTORY ON BAR CREEK #2 WELL

Jan. 12: Sage Engineering dug holes and buried anchors for guy wires.

0800-4 P.M. - Moved R & R rig #16 to location and rigged up. Road very muddy. Finished rigging-up at 4 P.M. Had Go-Wireline Service at location to run Gamma-bond log; but their generator wouldn't work, so sent them back ~~in~~ to Grd. Jct. Sent crew in at 1730 hrs.

Jan. 13: 0800:- Crew arrived and Go-Wireline service began running log. Tool wouldn't work; spent 2 hrs. on repair. Finally got log run at 11:30 A.M. Log shows excellent bond all the way. Cement top is at 2216'.

1200-1400 hrs. - Welded collar on casing.

1400-1530 hrs. - Went in hole with tubing (2 3/8") to 2500 feet.

1530-1600 - Rigged up to swab water out of casing.

1600-1715 - Swabbed out water down to 2400'.

1715-1815 - Pulled tubing and secured well head.

1815-1845 - Went in hole with casing gun and perforated zone 2740' to 2752' w/one shot per ft. (Correlation log -7'.) Rigged Go-Wireline down.

1845-1915 - Ran four stands of tubing and secured head and installed tubing valve.

1930 - Sent crew home.

Jan. 14: 0800 - Crew arrived. Pressure on tubing and casing was 275#.

0800-1000 - Ran tubing back in hole. Bottom of tubing at 2725'.

1000-1230 - Swabbing water out. Had small gas flow with trace of oil. (87 jts. of tubing in hole - 6 jts. left at surface.) (93 jts. total.)

1230-1330 - Waiting on gas build-up. Gas flaring continuously with 5 ft. flare. (Tank and pump arrived at 1400 hrs.)

1330-1415 - Made 4 swab runs and well kicked off flowing gas. Died down in 20 min.

1430 - Pulled another swab and got a small flow of gas. Previous flow was probably gas from the annulus that broke around and unloaded.

1430-1530 - Well flowing small amount of gas - burning with 5 ft. flare.

1530-1600 - Pulled 4 swabs - no fluid - gas flow increased. Burning with 10 ft. flare.

1615 - Shut well in and sent crew home.

Jan. 15: Shut down for Sunday.

Jan. 16: 0830 - Pressure on tubing and casing was 785#. Opened well. Blew oil with some water for 5 min; then all gas. Blew down to a steady 5-10 ft. flare in one hour. Casing pressure down to 25#. Made one swab run and recovered no fluid.

0945 - Shut well in for pressure build-up.

1100 - Pressure on casing at 80#. Opened well and had very small flare (5 ft.). Made a swab run and recovered about 250 ft. of fluid (50% oil and 50% H_2O). Est. about 1 bbl fluid; plus strong flow of gas (25 ft. flare). Casing pressure down to 70 lbs. Made second swab run. Recovered about 100 ft. of fluid - ½ bbl. (50% oil and 50% water). Casing pressure at 50 lbs.

1230 - Made swab run and recovered no fluid. Casing pressure was 25 lbs. 5 ft. flare of gas. Shut well in for pressure test.

	Tubing Pressure	Casing Pressure
1230:	0#	25#
1240:	7.5#	35#
1250:	10#	45#
1300:	15#	50#
1310:	17.5#	55#
1320:	20#	55#
1330:	25#	60#
1340:	30#	60#
1350:	34#	65#
1400:	37#	75#
1410:	41#	75#
1430:	46#	80#
1500:	60#	95#
1530:	72#	100#
1600:	80#	115#

1615 - Opened well. Had brief flare. Made two swab runs and unloaded about 1½ bbls fluid - oil and water. Well flowed gas - 30 ft. flare for 15 min. and then gradually decreased.

1700 - Shut well in and sent crew home.

Jan. 17: 0800 - Crew arrived. Tubing pressure 380#. Casing pressure 380#. Blew well down; unloaded an est. 1 bbl fluid (oil and water).

0830-1000 - Came out of hole with tubing to run casing gun.

1100-1130 - Went in hole with casing gun and shot zone 2568'-72' with 2 shots/ft. Had flow of gas to surface in 5 min.

1130-1300 - Going in hole with tubing. Landed tubing at 2500'.

1300-1400 - Ran swab twice and recovered est. 5 bbl of fluid (oil and water), plus gas - 10 ft. flare.

1400-1700 - Ran swab once every hour and recovered small amount of oil plus gas each time. Amount of gas increasing slowly.

1700 - Shut well in and sent crew home.

Jan. 18: 0800 - Crew arrived. Tubing pressure 400#, casing pressure 430#. Opened well. Flowed big flow of gas plus est. 5 bbl fluid (oil and water). Flowed for 10 min. and then gradually decreased to a steady flow of gas (5 ft. flare).

0900-1700 - Made a swab run every hour, and recovered small amount of fluid each time plus flow of gas.

1700 - Crew went home. (3 men only today)

Jan. 19: 0800 - Crew arrived. Casing pressure was 460#, and tubing pressure was 415#. Opened well and had strong flow of gas for 5 min. and then fluid. Est. 5 bbls of oil and water. Continued to flow strong for 10 min. and then gradually decreased to small 5 ft. flare. Decided to treat well with 250 gal. of silver-mud acid plus 2500 gal. diesel.

1200-1500 - Came out of hole with tubing to pick up packer. Packer wouldn't go in casing so had to shut down and call for another packer.

1600 - Shut well in and crew went home. (3 men only today)

Jan. 20: 0800 - Crew arrived. C.P. was 460# and T.P. was 420#. Flowed well down.

1000 - Packer arrived. Found that it wouldn't go down casing so took it to town to grind down. Tried to run it again at 1430 and it still wouldn't go, so had to take it to town and have it turned down to 4½" O.D. Dowell arrived at 1100. Sent them home at 1530 hrs.

1600 - Shut well in and sent crew home.

Jan. 21: 0800 - Crew arrived. C.P. was 400# and T.P. was 330#. Opened well and had strong flow of gas for 10 mins. No fluid with no tubing in hole.

0815-1000 - Going in hole with packer. Set packer at 2694' K.B., and rigged well head.

1000-1045 - Treated perfs at 2740'-52' with 250 gal. silver-mud remover acid and 58 bbl diesel. Broke down at 2000# pres. and pumped in at 2300# at 4 bbl/min. rate. Dropped 12 ball sealers at 2 per bbl after break down pressure was reached. Noted ball action with increase in pressure to 2600# for one minute. Instant shut-in pressure was 1500# and decreased to 700# in 15 minutes.

1045-1100 - Rigged Dowell down and rigged up flow line to tank.

1100-1130 - Well flowing small stream of diesel to tank.

1130-1330 - Released packer and came out of hole.

1330-1430 - Going back in hole with tubing. Landed tubing at 2705' K.B. Pin collar only on bottom.

1430 - Began swabbing diesel back. Diesel is mixed with oil.

1430-1700 - Swabbed out oil and diesel. Recovered about 43 bbl. total.

1700 - Shut well in and sent crew to town.

Jan. 22: Sunday. Didn't work.

Jan. 23: 0730 - Crew arrived. Tubing pressure was 180#. Casing pressure was 600#. Opened well. Had big flow of gas with oil spray for 20 minutes. Casing pressure dropped to 180#. Well flowed again after third swab run for 30 minutes. Flowed gas with oil spray. Too strong to flow into flat tank. (Blowing oil out of tank.) Casing pressure dropped to 80#. Swabbed twice per hr. rest of day and recovered flow of gas plus oil and diesel each run. Estimate ½ bbl fluid each run. Have recovered about 65 bbl fluid to date. This is about 10 bbl over the frac. fluid.

1600 - Shut well in and sent crew home.

Jan. 24: 0800 - Crew arrived. Casing pressure was 550#. Tubing pressure was 300#. Opened well. Had strong flow of gas for 10 minutes - gradually decreasing.

0820 - Began swabbing. Found fluid level at 1500' from surface (1200' from bottom). Made two runs and well unloaded oil on casing side. Sprayed oil all over location. First run recovered 800' of oil. Casing pressure dropped to 125#.

0900-1200 - Continued swabbing until all fluid was recovered.

1200-1500 - Made swab run every 30 minutes. Recovered about ½ bbl oil each time along with gas. Gas flowed at an estimated rate of about 150 MCF between runs. Well is making about 1 bbl oil per hr. by swabbing. Have recovered approximately 85 bbl fluid since breakdown treatment.

1500-1630 - Rigged down, making ready to move rig in the morning.

1630 - Released rig.

Will have to run rods and pump, set pump jack and tanks at a later date when roads and location dry-up and weather improves. Based on above data, it is estimated that well may make about 15 bbls. of oil per day and about 150 to 200 MCF gas per day.

GEOLOGIC REPORT
ON
BAR CREEK UNIT #2 WELL

Introduction

The Bar Creek Unit #2 well was drilled by Willard Pease Oil and Gas Co. in October (Oct. 15-18) of 1977. The well was not completed until January 12 to 24, 1978. Completion operations were hampered and impeded by severe weather. Installation of surface equipment, such as: Tanks, pump jack, flow lines and separator, must wait further until the weather and road conditions improve. Further delays will also be caused by negotiations for a contract and outlet for the gas.

The subject well is located on the Stateline Anticline between the Bar Creek Unit #1 well which was completed as a good gas well from a sand in the Brushy Basin section in the Morrison formation and the Bar Creek Unit #3 well which was a dry hole.

The Bar Creek Unit #2 well was drilled to a depth of 2966' which was about 40 feet above the top of the Entrada formation. The well was drilled with air down to 2750' where the cuttings got damp and sticky so had to convert to air-mist drilling with soap and water. Due to mechanical failure, two air compressors were lost at 2860' and there was an increase in water at 2825' so converted to mud for circulation. The well was drilled within a six day period; but the actual drilling operations only took three days.

No good and well developed sands were found in the Dakota formation; however, there were two coal beds in this formation. The upper bed was about 10 feet thick and the lower bed was about 5 ft. thick. A continuous flow of gas mixed with oil was encountered at 2775' which burned with a 20-ft. flare until conversion to mud drilling was made at 2860'. Three sand benches

were drilled in the Salt Wash section of the Morrison. The middle bench from 2740' to 2775' was the most favorable looking bench and had the best shows. The well is completed in this bench.

Approximately 11 days were spent in completing the well due to being hampered by bad weather conditions. This work was finally completed however, and the well is ready for production equipment. This equipment cannot be installed until the weather improves and the road and location dry up. This should be about the end of March.

Geology, Stratigraphy and Hydrocarbon Shows

The subject well was located on the westerly plunging axis of the Stateline Anticline. The structure is a symmetrical anticline, trending nearly east-west and parallel to the Bar-X Anticline located about 3 miles north of the Stateline structure. The anticline has several transverse faults trending northeastward with displacements of 50 to 150 feet and downthrown on the west side.

The natural gas or oil reservoirs in the area are found in lenticular sands in the Dakota, Cedar Mountain, and Morrison formations. These sand lenses are quite irregular and variable and seem to have limited continuity. In general, they trend northeastward in the area, but tend to have very irregular, elongated shapes. They were deposited by aggrading streams, and represent stream channels, bar sands, and flood or alluvial sands. Interfingering and overlaps are common. Communication between the lenses tend to be minimal. Because of their erratic nature, one well does not prove or condemn a very large area. Wells on adjacent 40-acre tracts can be quite different.

The Bar Creek Unit #2 well was about 250 feet structurally lower than the Bar Creek Unit #1 well located approximately one mile to the east and about 150 feet higher than the Bar Creek Unit #3 well located approximately one mile to the west. This illustrates the approximate amount of plunge of the anticline to the west but is further complicated by the intervening faults.

The subject well encountered a normal sequence of sediments with normal thicknesses and compared reasonably well with the Bar Creek Unit #1 well. The major difference was that the subject well had practically no sand in the Dakota as compared to the three good sand benches found in the Bar Creek #1 well; but had much better sand development in the Salt Wash section of the Morrison than

the #1 well. The productive sand found in the Brushy Basin section of the Morrison in the #1 well was thinner in the subject well and did not have any gas in it when it was drilled.

A small amount of gas was obtained at depths of 2013' (probably from a zone at 1995' to 2005') and at 2170' to 2200'. This gas would flare (5 to 10 ft.) on connections for about 3 mins. The shows were in silty sandstone and siltstone beds in the Mancos. The samples from 1920' to 2040' had good gas odor and some fluorescences.

As noted above, the Dakota formation had very little sand. The formation was topped at 2270' and had a 10-ft. thick coal bed at the top. The underlying sand was bentonitic, silty and tight. A second coal bed (5 ft. thick) was drilled at 2290' to 2295'. The underlying sand was thin, bentonitic, and tight. The formation was about 92 feet thick. No hydrocarbon shows were observed in this formation.

The top of the Cedar Mountain was encountered at about 2362'. There were no sand beds in this formation, which contained light green and gray shales, some limestone, and some glauconitic, clay filled, conglomeratic shales and siltstones. The formation was about 90 feet thick and contained no shows of hydrocarbons.

The Morrison formation was topped at about 2450' (2430' by samples). The Brushy Basin section (2450' to 2704') contained two thin sands, which tended to be quartzitic and did not give up any gas when drilled. However, the sand at 2564' to 2572', appeared to have gas, when logged. Calculations based on electric log data indicated a water saturation of 62%, but later peforating failed to find any measurable flow of gas.

The Salt Wash section was encountered at about 2700'. There were three well developed sands in the upper part of this section, and two tight, quartzitic sands in the lower part. The top sand was fine-grained (13% porosity), bentonitic, and contained no shows. Later log calculations indicated a water saturation of about 90% in this sand. The second sand at 2740' to 2775' was porous, medium-grained and contained excellent oil stain and good fluorescence. Gas and oil were blown to the surface from this sand and produced a continuous flare (20 to 25 ft.) until the drilling operations were converted to mud at 2860'. Later log calculations indicated that the upper twenty feet of this sand had a water saturation of about 75% and the lower 15 feet had a water saturation of 100%. Accordingly, completion work in this sand was confined to the upper 12 feet. The third sand at 2790' to 2820' was porous, medium-grained, and had solid blue

fluorescence. Some slight increase in the gas flow was apparent during the drilling operations; however, there appeared to be an increase in the amount of water also. Later log calculations indicated that this sand contained 100% water saturation; so no attempt was made to complete this sand.

The Curtis-Summerville formation was encountered at about 2932', according to the E-logs, and consisted of calcareous, very-fine-grained sandstone; red, green, and gray calcareous shale and siltstone; brown limestone, and gray quartzitic sandstone. About thirty feet of this formation was drilled. No shows of hydrocarbons were observed in this section.

The Entrada formation was not penetrated in this well; but by extrapolation the top of the formation should be at approx. 3015' which would be about 50 feet below the total depth of the well.

The formations with their tops, thicknesses, and datum points which were encountered in the subject well as determined from the electric logs are as follows:

Formation	Depth to Top	Thickness	Datum
Mancos	Surface	2270'	5145'
Dakota	2270'	92'	2875'
Cedar Mountain	2362'	88'	2783'
Morrison (Brushy Basin)	2450'	254'	2695'
(Salt Wash)	2704'	228'	2441'
Curtis-Summerville	2932'	—	2213'
Total Depth	2966'		

Comparison of the above datum points with those of the Bar Creek Unit #1 well indicate that the subject well was about 240' to 275' structurally lower, with the difference increasing from the bottom formations to the top ones. The difference on the top of the Dakota was 275'. This indicates that there was a gradual change in the movement of the structure with time, probably due to faulting which occurred after Dakota time. This is further substantiated by the increased thickness of the Cedar Mountain formation in the #1 well.

A detailed descriptive sample log from 1500 ft. to total depth is attached hereto.

Conclusion

The Bar Creek Unit #2 well is not as good a well as the Unit #1

well due to the poorer development of sands in the Dakota formation and Brushy Basin section of the Morrison formation. However, the Salt Wash section was as good, if not better, and the well was completed in that member.

The subject well is approximately one mile west of and separated from the #1 well by a northeast trending fault which is downthrown on the west side. The axis of the Statline structure is also plunging to the west. Thus the subject well was about 250' structurally lower than the #1 well. The difference was greater in the upper formations than in the lower formations. It is probable that the faulting took place after Dakota time.

The Bar Creek Unit #2 well had very little sand in the Dakota formation and had no shows of hydrocarbons. The Cedar Mountain formation likewise contained no well developed sands or hydrocarbon shows. The Brushy Basin section of the Morrison had two thin sands but neither appeared to have any hydrocarbons when drilled. However, the electric logs indicated that one of these sands, 2564' to 2572', had gas; but failed to give up any gas when perforated.

The well is completed in the second Salt Wash sand which is about 35 feet thick (2740' to 2775'). The electric logs suggest that the upper 20 feet of this sand contains hydrocarbons and the bottom 15 feet may contain a high percentage of water saturation. Therefore, only the upper 12 feet (2740' to 2752') were perforated and treated with diesel to break down the perforations. After recovery of the break-down fluid, it appears that the well may produce about 15 bbls. of oil per day along with 150 to 200 MCF of gas. Due to weather and road conditions, the surface equipment can not be installed until later.

Reserves of oil and gas that can be recovered from the Unit #2 well are difficult to estimate due to the irregular nature of the reservoir sand: Likewise, the reservoir pressure is not definitely known; but should be about 650 lbs p.s.i. Based on this and other parameters there should be about 30,000 bbls. of oil on a 40-acre spacing, and about ¼ billion cu. ft. of gas on a 160-acre spacing.

W. Don Quigley

W. Don Quigley
Consulting Geologist
A.A.P.G. Cert. #1296
A.P.G.S. Cert. #3038

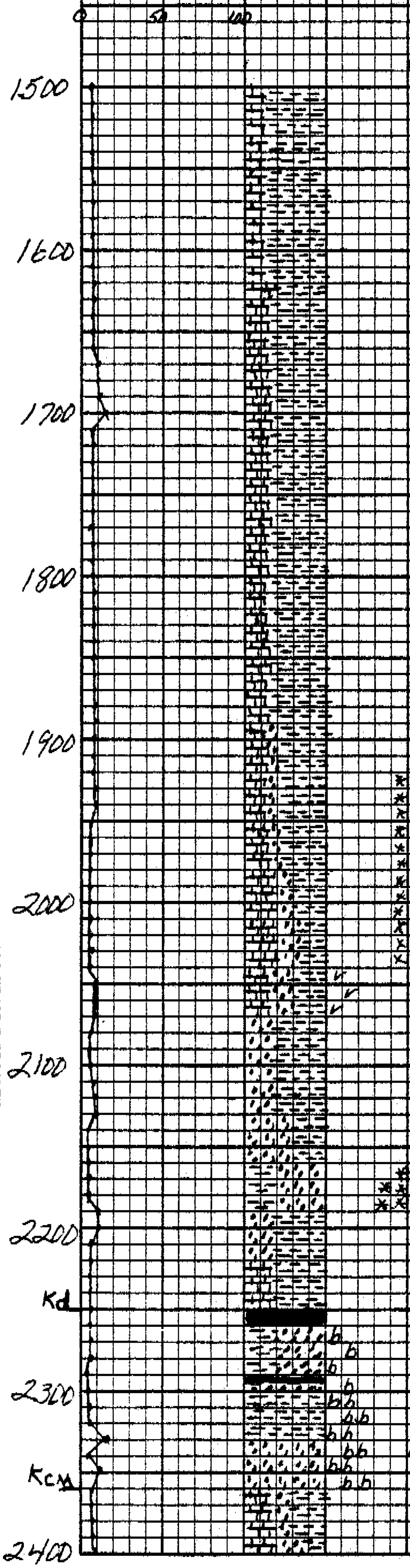
Willard Pease Oil & Gas Co. - B[illegible] Ck #2

NW SE, Sec. 24 - 17S - 25E

ELEV.: 5135' grd; 5145' K.B.

Drlg. Time MIN/10 FT.

0 50 100



DK. gry to blk. calc. marine sh.

As above w/ some gry to tan arg. lms.

DK. gry to blk. spotted calc. mica. sh. (calcite spots)

Blk. calc. mica. spotted sh.

Blk. calc. slt. slty sh.

Blk. calc. slty mica. sh. w/ good gas odor & oil st.

DK. gry sdy calc. sh. w/ gas odor & brn oil st. (v. calc.)

DK. gry calc. slst. & blk. calc. mica. sh. & gry arg. sh. - short flare (on conn)

DK. gry mica. calc. sh. & gry calc. mica. slst.

DK. gry non-calc. slty sh. & slst

M. to lt. gry slst. - Hd

DK. gry arg. vfg. ss w/ strong gas odor & good fluor. - small flare

DK. gry slst

DK. gry to blk. spotted calc. sh.

(Coal)

Lt. gry glauc. - bent. vfg. Tgt. ss

Coal & lt. gry bent. vfg. ss

Lt. gry sh & lt. brn to tan bent.

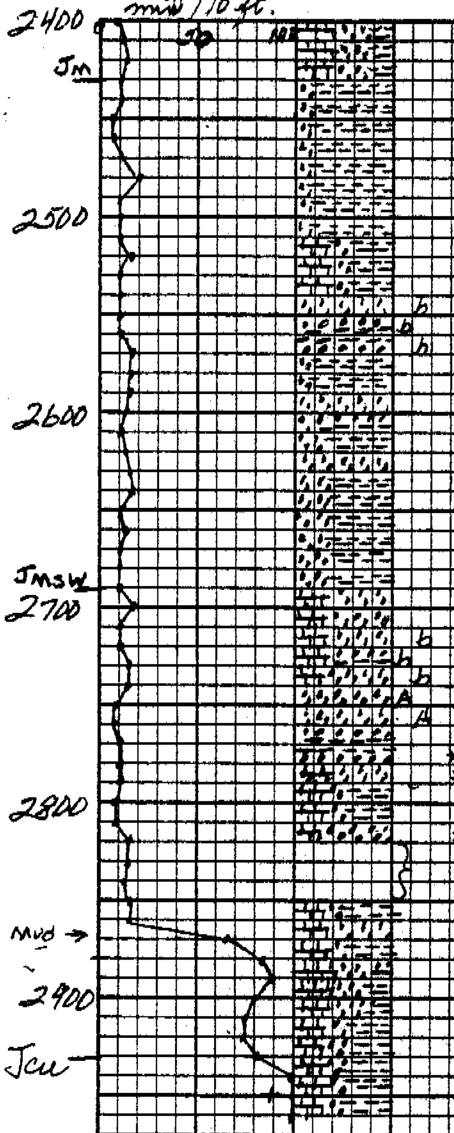
Lt. gry vfg. v. bent ss w/ red? grns

Lt. gry-grn sdy sh & lt. brn xln lms.

(Grn calc. glauc. + congl.) ss & sh. - Tgt

Bar Creek Unit #2 Well (Cont) 2400'–

Drlg. Time min/10 ft.



Grn. calc. glauc.-cong. ss & sh. (gy.)

Purple sh & slst.

Grn-gry silty sh.

+ some pur. silty sh.

Grn-gry calc. silty sh. & pur. silty sh.

Wh. to brn. hd qtztc ss & lt. gry bent. sh.

Rd-brn slst.

Rd vfg. Tgt. ss

Rd-grn sdy sh
Hd wh. qtztc ss.
Rd-brn sh & slst.

Dk gry calc. qtztc ss

Lt. gry bent fg. ss (wet)
+ grn calc sh & bent
*Lt. brn calc fg to m.g. ang. bent ss (wet or oil) + good fluor & st.
* Wh. ang qtztc ss w/ ang. fluor.
* Wh. mg. ss w/ fluor → converted to air-mist-soap & H2O drlg.
* + grn & gry sh.
** Wh to brn. mg. calc ss. w/ solid blue fluor. while drlg.
** Had cont. gas flare - 20 ft long
Varic. calc. sh & slst.

** Wh. fg. sl. calc. ss - sl. gas inc.

No samples

Varic. calc. sh & slst.
Lt brn to wh. calc. vfg. hd ss. Converted to mud.
Varic. calc. sh & slst
Wh. chalky vfg. ss + varic. sh.

Hd wh qtztc ss & varic. calc. sh & slst.
Pk. calc. bent slst; grn sh, gry & blk sh. & gry qtztc ss
Pk & rd-brn calc. slst.

+ grn glauc. sh; brn lms; & gry qtztc ss

T.D. 2966'

Utah State 3

Form 9-330
(Rev. 5-63)

UNITED STATES
DEPARTMENT OF THE INTERIOR
GEOLOGICAL SURVEY

SUBMIT IN DUPLICATE* (See other instructions on reverse side)

Form approved.
Budget Bureau No. 42-R355.5.

10

WELL COMPLETION OR RECOMPLETION REPORT AND LOG*

RECEIVED MAR 6 1978 DIVISION OF OIL, GAS, & MINING

5. LEASE DESIGNATION AND SERIAL NO.: U-16919

6. IF INDIAN, ALLOTTEE OR TRIBE NAME:

1a. TYPE OF WELL: OIL WELL [X] GAS WELL [ ] DRY [ ] Other

b. TYPE OF COMPLETION: NEW WELL [X] WORK OVER [ ] DEEP-EN [ ] PLUG BACK [ ] DIFF. RESVR. [ ] Other

7. UNIT AGREEMENT NAME: Bar Creek

8. FARM OR LEASE NAME: Federal-Anschutz

2. NAME OF OPERATOR: Willard Pease Oil & Gas Co.

9. WELL NO.: Bar Creek #2

3. ADDRESS OF OPERATOR: 570 Kennecott Bldg., Salt Lake City, Utah 84111

10. FIELD AND POOL, OR WILDCAT: Stateline

4. LOCATION OF WELL (*Report location clearly and in accordance with any State requirements*)*
At surface: NW.SE.Sec.24,T17S,R25E,S.L.M.
At top prod. interval reported below: 1945'from E-line & 1945'from S-line

11. SEC., T., R., M., OR BLOCK AND SURVEY OR AREA: Sec.24-17S-25E-SLM

At total depth

14. PERMIT NO.	DATE ISSUED	12. COUNTY OR PARISH	13. STATE
		Grand	Utah

15. DATE SPUDDED	16. DATE T.D. REACHED	17. DATE COMPL. (*Ready to prod.*)	18. ELEVATIONS (DF, RKB, RT, GR, ETC.)*	19. ELEV. CASINGHEAD
Oct.1 '77	Oct.18'77	Jan.24'78	5135'grd;5145'K.B.	5136'

20. TOTAL DEPTH, MD & TVD	21. PLUG, BACK T.D., MD & TVD	22. IF MULTIPLE COMPL., HOW MANY*	23. INTERVALS DRILLED BY	ROTARY TOOLS	CABLE TOOLS
2966'		one	→	0-2966'	

24. PRODUCING INTERVAL(S), OF THIS COMPLETION—TOP, BOTTOM, NAME (MD AND TVD)*: 2740'-2760' Morrison-Salt Wash Zone

25. WAS DIRECTIONAL SURVEY MADE: no.

26. TYPE ELECTRIC AND OTHER LOGS RUN: IESlog, Gamma-Density, Compensated Neutron Porosity

27. WAS WELL CORED: no

28. CASING RECORD (*Report all strings set in well*)

CASING SIZE	WEIGHT, LB./FT.	DEPTH SET (MD)	HOLE SIZE	CEMENTING RECORD	AMOUNT PULLED
8 5/8"	24.00#	163'	12¼"	85 sks.	none
5½"	14.50-23#	2880'	7-7/8"	100 sks.	none

29. LINER RECORD

SIZE	TOP (MD)	BOTTOM (MD)	SACKS CEMENT*	SCREEN (MD)
	none			

30. TUBING RECORD

SIZE	DEPTH SET (MD)	PACKER SET (MD)
2-3/8"	2705'	none

31. PERFORATION RECORD (*Interval, size and number*)
2740'-2752' w/one sh/ft.
2568'-2572' w/two sh/ft.

32. ACID, SHOT, FRACTURE, CEMENT SQUEEZE, ETC.

DEPTH INTERVAL (MD)	AMOUNT AND KIND OF MATERIAL USED
2740-2752'	58 bbl.diesel

33.* PRODUCTION

DATE FIRST PRODUCTION	PRODUCTION METHOD (*Flowing, gas lift, pumping—size and type of pump*)	WELL STATUS (*Producing or shut-in*)
Jan.23'78	Swabbing	Shut-in

DATE OF TEST	HOURS TESTED	CHOKE SIZE	PROD'N. FOR TEST PERIOD →	OIL—BBL.	GAS—MCF.	WATER—BBL.	GAS-OIL RATIO
Jan.23	8 hrs.	none		15	150-200	10	

FLOW. TUBING PRESS.	CASING PRESSURE	CALCULATED 24-HOUR RATE →	OIL—BBL.	GAS—MCF.	WATER—BBL.	OIL GRAVITY-API (CORR.)
0	80#		15	150-200	10	38

34. DISPOSITION OF GAS (*Sold, used for fuel, vented, etc.*): Vented

TEST WITNESSED BY: W. Don Cuigley

35. LIST OF ATTACHMENTS: Drilling, Completion, and Geologic Report.

36. I hereby certify that the foregoing and attached information is complete and correct as determined from all available records

SIGNED W. Don Cuigley TITLE Cons. Geol. DATE Mar.3,1978

*(See Instructions and Spaces for Additional Data on Reverse Side)

Form 9-331
(May 1963)

UNITED STATES
DEPARTMENT OF THE INTERIOR
GEOLOGICAL SURVEY

SUBMIT IN TRIPLICATE* (Other instructions on reverse side)

Form approved.
Budget Bureau No. 42-R1424.

5. LEASE DESIGNATION AND SERIAL NO.: U-16919

6. IF INDIAN, ALLOTTEE OR TRIBE NAME:

RECEIVED 12-8-83

SUNDRY NOTICES AND REPORTS ON WELLS

(Do not use this form for proposals to drill or to deepen or plug back to a different reservoir. Use "APPLICATION FOR PERMIT—" for such proposals.)

1. OIL WELL [X] GAS WELL [ ] OTHER

7. UNIT AGREEMENT NAME: Bar Creek

2. NAME OF OPERATOR: Willard Pease Oil & Gas Company

8. FARM OR LEASE NAME: Federal-Anchutz

3. ADDRESS OF OPERATOR: P.O. Box 1874, Grand Junction, CO 81502

9. WELL NO.: Bar Creek #2

4. LOCATION OF WELL (Report location clearly and in accordance with any State requirements.* See also space 17 below.) At surface: 1945' FEL, 1945' FSL Section 24, T17S, R25E SLB & M

10. FIELD AND POOL, OR WILDCAT: Stateline

11. SEC., T., R., M., OR BLK. AND SURVEY OR AREA: Sec. 24, T17S, R25E

MRSN-Saltwash

14. PERMIT NO.: 43-019-30344

15. ELEVATIONS (Show whether DF, RT, GR, etc.): 5135 Grnd

12. COUNTY OR PARISH: Grand

13. STATE: Utah

16. Check Appropriate Box To Indicate Nature of Notice, Report, or Other Data

NOTICE OF INTENTION TO:				SUBSEQUENT REPORT OF:			
TEST WATER SHUT-OFF	[ ]	PULL OR ALTER CASING	[ ]	WATER SHUT-OFF	[ ]	REPAIRING WELL	[ ]
FRACTURE TREAT	[ ]	MULTIPLE COMPLETE	[ ]	FRACTURE TREATMENT	[ ]	ALTERING CASING	[ ]
SHOOT OR ACIDIZE	[ ]	ABANDON*	[X]	SHOOTING OR ACIDIZING	[ ]	ABANDONMENT*	[ ]
REPAIR WELL	[ ]	CHANGE PLANS	[ ]	(Other)			
(Other)				(NOTE: Report results of multiple completion on Well Completion or Recompletion Report and Log form.)			

17. DESCRIBE PROPOSED OR COMPLETED OPERATIONS (Clearly state all pertinent details, and give pertinent dates, including estimated date of starting any proposed work. If well is directionally drilled, give subsurface locations and measured and true vertical depths for all markers and zones pertinent to this work.)*

TD 2966'; Tops: Dakota 2295', Morrison 2452', Salt Wash 2732'; Top cement 2330'; Perfs 2740-52 and 2568-72. 8 5/8" at 165', 5½" at 2880'

Proposed Abandonment Procedure:

1. Fill hole with 9 lb mud
2. Set plug #1 from 2650' up to 2450' with 25 sx
3. Free point and cut off 5½" at or near 2330' and pull.
4. Set plug #2 from 100' below cutoff to 100' above cutoff with 60 sx
5. Set plug #3 from 210' up to 110' with 30 sx
6. Set surface plug with 10 sx and erect regulation marker.
7. Rehabilitate location.

There should be 100' of cement above and below the cut off point.

RECEIVED
JUN 1 1984
DIVISION OF OIL
GAS & MINING

RECEIVED
1983 NOV 28 PM 12:03
DEPT. OF INTERIOR
BUR. OF LAND MGMT.
GRAND RIVER
FIELD OFFICE

18. I hereby certify that the foregoing is true and correct

SIGNED J. M. Burkhalter TITLE Consulting Engineer DATE November 16, 1983

(This space for Federal or State office use)

APPROVED BY [illegible] TITLE District Manager DATE 12/5/83

CONDITIONS OF APPROVAL, IF ANY:

NOTICE OF APPROVAL

*See Instructions on Reverse Side

REC'D. MD NOV 30 1983

UTOG Acg

STATE OF UTAH
NATURAL RESOURCES
Oil, Gas & Mining

Scott M. Matheson, Governor
Temple A. Reynolds, Executive Director
Dianne R. Nielson, Ph.D., Division Director

4241 State Office Building • Salt Lake City, UT 84114 • 801-533-5771

June 8, 1984

Willard Pease Oil & Gas Company
2135 East Main
Grand Junction, Colorado 81502

Gentlemen

SUBJECT: SUBSEQUENT PLUGGING AND ABANDONMENT

Thank you for informing our office that the wells on the attached list have been plugged and abandoned and for sending copies of the intent to abandon sundries. This office, however, has not received "Sundry Notices" of subsequent abandonment on these locations.

Rule D-2 of The Oil and Gas Conservation General Rules and Regulations and Rules and Practice and Procedure states:

> Within thirty (30) days after the plugging of any well has been accomplished, the owner or operator thereof shall file a plugging report with the Division. The report shall give a detailed account of the manner in which the plugging work was carried out, including the nature and quantities of materials used in plugging, and the location and extent (by depths) of the plugs of different materials; records of any tests or measurements made and the amount, size and location (by depths) of casing left in the well; and statement of the volume of mud fluid used. If an attempt was made to part any casing, a complete report of the method used and results obtained must be included.

Enclosed is Form OGC-1b "Sundry Notices and Reports on Wells", for you to complete and return to this office in order to bring these wells into compliance with the above stated rule.

Your prompt attention to the above will be greatly appreciated.

Sincerely

Claudia L. Jones
Well Records Specialist

clj
Enclosure

cc Dianne R. Nielson
Ronald J. Firth
John R. Baza
File

Well No. Federal #1
API #43-019-15699
Sec. 3, T. 18S., R. 23E.
Grand County, Utah

Well No. Anschutz Bar Creek #2
API #43-019-30344
Sec. 24, T. 17S., R. 25E.
Grand County, Utah

Well No. Calf Canyon Federal #6
API #43-019-30391
Sec. 10, T.20S., R. 21E.
Grand County, Utah

REGISTERED IN ROCKY MOUNTAIN STATES

BURKHALTER ENGINEERING

Petroleum and Energy Consultants

715 Horizon Dr. #339
Grand Jct., Colorado 81501

Tel. (303) 242-8555
(303) 242-8675

August 3, 1984

Division of Mining, Oil & Gas
4241 State Office Building
Salt Lake City, Utah 84114

Enclosed please find the "Well Completion or Recompletion Report and Log" forms for the Pease Oil & Gas Calf Canyon #6 and the Bar Creek #2.

Sincerely,

Burkhalter Engineering

BE/ja
Enc.

Form 9-330
(Rev. 5-63)

RECEIVED
AUG 1 1984
DIVISION OF OIL, GAS & MINING

Subsequent Report. not well complete

UNITED STATES
DEPARTMENT OF THE INTERIOR
GEOLOGICAL SURVEY

SUBMIT IN DUPLICATE* (See other instructions on reverse side)

Form approved.
Budget Bureau No. 42-R355.5.

WELL COMPLETION OR RECOMPLETION REPORT AND LOG*

1a. TYPE OF WELL: OIL WELL ☐ GAS WELL ☐ DRY ☒ Other

b. TYPE OF COMPLETION: NEW WELL ☐ WORK OVER ☐ DEEP-EN ☐ PLUG BACK ☐ DIFF. RESVR. ☐ Other P&A

5. LEASE DESIGNATION AND SERIAL NO.: U-16919

6. IF INDIAN, ALLOTTEE OR TRIBE NAME:

7. UNIT AGREEMENT NAME: Bar Creek

8. FARM OR LEASE NAME: Federal Anschutz

9. WELL NO.: Bar Creek #2

10. FIELD AND POOL, OR WILDCAT: Stateline

11. SEC., T., R., M., OR BLOCK AND SURVEY OR AREA: Sec. 24, T17S, R25E SLM

2. NAME OF OPERATOR: Willard Pease Oil & Gas

3. ADDRESS OF OPERATOR: P.O. Box 1874, Grand Junction, Colorado 81502

4. LOCATION OF WELL (*Report location clearly and in accordance with any State requirements*)*
At surface: 1945' FEL, 1945' FSL, Sec. 24, T17S, R25E
At top prod. interval reported below: Approximately same " "
At total depth

14. PERMIT NO. | DATE ISSUED

12. COUNTY OR PARISH: Grand | 13. STATE: Utah

15. DATE SPUDDED	16. DATE T.D. REACHED	17. DATE COMPL. (*Ready to prod.*)	18. ELEVATIONS (DF, RKB, RT, GR, ETC.)*	19. ELEV. CASINGHEAD
10-1-77	10-18-77	1-24-78	GR 5135	5136

20. TOTAL DEPTH, MD & TVD	21. PLUG, BACK T.D., MD & TVD	22. IF MULTIPLE COMPL., HOW MANY*	23. INTERVALS DRILLED BY	ROTARY TOOLS	CABLE TOOLS
2966'			→	X	

24. PRODUCING INTERVAL(S), OF THIS COMPLETION—TOP, BOTTOM, NAME (MD AND TVD)*: 2740 to 2760 Salt Wash

25. WAS DIRECTIONAL SURVEY MADE: No

26. TYPE ELECTRIC AND OTHER LOGS RUN: IES, G.R., Density, C.N.L.

27. WAS WELL CORED: No

28. CASING RECORD (*Report all strings set in well*)

CASING SIZE	WEIGHT, LB./FT.	DEPTH SET (MD)	HOLE SIZE	CEMENTING RECORD	AMOUNT PULLED
8 5/8"	24#	163'	12¼	85 sx	None
5½"	14.5#&23#	2880	7 7/8	100 sx	1850'

29. LINER RECORD

SIZE	TOP (MD)	BOTTOM (MD)	SACKS CEMENT*	SCREEN (MD)
		NA		

30. TUBING RECORD

SIZE	DEPTH SET (MD)	PACKER SET (MD)
	NA	

31. PERFORATION RECORD (*Interval, size and number*)
2740' - 2752' 2 SPF
2568' - 2572' 2 SPF

32. ACID, SHOT, FRACTURE, CEMENT SQUEEZE, ETC.

DEPTH INTERVAL (MD)	AMOUNT AND KIND OF MATERIAL USED
2740 -2752	55 bbls diesel
2568 - 2752	Fraced 3% HCl, 37,000# sand

33.* PRODUCTION

DATE FIRST PRODUCTION	PRODUCTION METHOD (*Flowing, gas lift, pumping—size and type of pump*)	WELL STATUS (*Producing or shut-in*)
	*See Compl. Rpt. dated 3/3/78.	

DATE OF TEST	HOURS TESTED	CHOKE SIZE	PROD'N. FOR TEST PERIOD →	OIL—BBL.	GAS—MCF.	WATER—BBL.	GAS-OIL RATIO

FLOW. TUBING PRESS.	CASING PRESSURE	CALCULATED 24-HOUR RATE →	OIL—BBL.	GAS—MCF.	WATER—BBL.	OIL GRAVITY-API (CORR.)

34. DISPOSITION OF GAS (*Sold, used for fuel, vented, etc.*) | TEST WITNESSED BY

35. LIST OF ATTACHMENTS

36. I hereby certify that the foregoing and attached information is complete and correct as determined from all available records

SIGNED R. G. Swan TITLE Completion Supervisor DATE 7-31-84

*(See Instructions and Spaces for Additional Data on Reverse Side)

INSTRUCTIONS

General: This form is designed for submitting a complete and correct well completion report and log on all types of lands and leases to either a Federal agency or a State agency, or both, pursuant to applicable Federal and/or State laws and regulations. Any necessary special instructions concerning the use of this form and the number of copies to be submitted, particularly with regard to local, area, or regional procedures and practices, either are shown below or will be issued by, or may be obtained from, the local Federal and/or State office. See instructions on items 22 and 24, and 33, below regarding separate reports for separate completions.
If not filed prior to the time this summary record is submitted, copies of all currently available logs (drillers, geologists, sample and core analysis, all types electric, etc.), formation and pressure tests, and directional surveys, should be attached hereto, to the extent required by applicable Federal and/or State laws and regulations. All attachments should be listed on this form, see item 35.
Item 4: If there are no applicable State requirements, locations on Federal or Indian land should be described in accordance with Federal requirements. Consult local State or Federal office for specific instructions.
Item 18: Indicate which elevation is used as reference (where not otherwise shown) for depth measurements given in other spaces on this form and in any attachments.
Items 22 and 24: If this well is completed for separate production from more than one interval zone (multiple completion), so state in item 22, and in item 24 show the producing interval, or intervals, top(s), bottom(s) and name(s) (if any) for only the interval reported in item 33. Submit a separate report (page) on this form, adequately identified, for each additional interval to be separately produced, showing the additional data pertinent to such interval.
Item 29: *"Sacks Cement":* Attached supplemental records for this well should show the details of any multiple stage cementing and the location of the cementing tool.
Item 33: Submit a separate completion report on this form for each interval to be separately produced. (See instruction for items 22 and 24 above.)

37. SUMMARY OF POROUS ZONES: SHOW ALL IMPORTANT ZONES OF POROSITY AND CONTENTS THEREOF; CORED INTERVALS; AND ALL DRILL-STEM TESTS, INCLUDING DEPTH INTERVAL TESTED, CUSHION USED, TIME TOOL OPEN, FLOWING AND SHUT-IN PRESSURES, AND RECOVERIES				38. GEOLOGIC MARKERS		
FORMATION	TOP	BOTTOM	DESCRIPTION, CONTENTS, ETC.	NAME	TOP MEAS. DEPTH	TOP TRUE VERT. DEPTH
Cement Plug	2407'	2660'	25 sx Class G			
"	1750'	1900'	60 sx Class G, Casing cut off at 1850'			
"	110'	210'	30 sx Class G, Surface pipe shoe at 163'			
Surface plug			10 sx Class G			
			Date of abandonment Dec. of 1983			

★ U.S. GOVERNMENT PRINTING OFFICE: 1974-780-680/VIII-238

Form OGC-1b

SUBMIT TRIPLICATE* (Other instructions on reverse side)

STATE OF UTAH
DEPARTMENT OF NATURAL RESOURCES
DIVISION OF OIL, GAS, AND MINING

SUNDRY NOTICES AND REPORTS ON WELLS

(Do not use this form for proposals to drill or to deepen or plug back to a different reservoir. Use "APPLICATION FOR PERMIT—" for such proposals.)

5. LEASE DESIGNATION AND SERIAL NO.	U-16919
6. IF INDIAN, ALLOTTEE OR TRIBE NAME	
7. UNIT AGREEMENT NAME	Bar Creek
8. FARM OR LEASE NAME	Federal-Anschutz
9. WELL NO.	Bar Creek #2
10. FIELD AND POOL, OR WILDCAT	Stateline
11. SEC., T., R., M., OR BLK. AND SURVEY OR AREA	Sec 24, T17S, R25S
12. COUNTY OR PARISH	Grand
13. STATE	Utah

1. OIL WELL [X] GAS WELL [ ] OTHER

2. NAME OF OPERATOR: Willard Pease Oil & Gas Company

3. ADDRESS OF OPERATOR: P.O. Box 1874, Grand Junction, CO 81502

4. LOCATION OF WELL (Report location clearly and in accordance with any State requirements.* See also space 17 below.) At surface: 1945' FEL, 1945' FSL Section 24, T17S, R25S SLB & M

14. PERMIT NO.

15. ELEVATIONS (Show whether DF, RT, GR, etc.): 5135 Grnd

16. Check Appropriate Box To Indicate Nature of Notice, Report, or Other Data

NOTICE OF INTENTION TO:				SUBSEQUENT REPORT OF:			
TEST WATER SHUT-OFF	[ ]	PULL OR ALTER CASING	[ ]	WATER SHUT-OFF	[ ]	REPAIRING WELL	[ ]
FRACTURE TREAT	[ ]	MULTIPLE COMPLETE	[ ]	FRACTURE TREATMENT	[ ]	ALTERING CASING	[ ]
SHOOT OR ACIDIZE	[ ]	ABANDON*	[X]	SHOOTING OR ACIDIZING	[ ]	ABANDONMENT*	[ ]
REPAIR WELL	[ ]	CHANGE PLANS	[ ]	(Other)			[ ]
(Other)			[ ]	(NOTE: Report results of multiple completion on Well Completion or Recompletion Report and Log form.)			

17. DESCRIBE PROPOSED OR COMPLETED OPERATIONS (Clearly state all pertinent details, and give pertinent dates, including estimated date of starting any proposed work. If well is directionally drilled, give subsurface locations and measured and true vertical depths for all markers and zones pertinent to this work.)*

TD 2966'; Tops: Dakota 2295', Morrison 2452', Salt Wash 2732'; Top cement 2330'; Perfs 2740-52 and 2568-72. 8 5/8" at 165', 5½" at 2880'

Proposed Abandonment Prodedure:

1. Fill hole with 9 lb mud
2. Set plug #1 from 2650' up to 2450' with 25 sx
3. Free point and cut off 5½" at or near 2330' and pull.
4. Set plug #2 from 100' below cutoff to 100' above cutoff with 60 sx
5. Set plug #3 from 210' up to 110' with 30 sx
6. Set sufface plug with 10 sx and erect regulation marker
7. Rehabilitate location.

RECEIVED
SEP 20 1984
DIVISION OF OIL GAS & MINING

ACCEPTED ~~APPROVED~~ BY THE STATE OF UTAH DIVISION OF OIL, GAS, AND MINING
DATE: 9/25/84
BY: John R. Baza

18. I hereby certify that the foregoing is true and correct

SIGNED Willard Pease TITLE W. Pease DATE 9/20/84

(This space for Federal or State office use)

APPROVED BY _____ TITLE _____ DATE _____
CONDITIONS OF APPROVAL, IF ANY:

*See Instructions on Reverse Side